

Appl. No. 09/879,452
Amdt. Dated May 10, 2004
Reply to Office action of February 9, 2004
Attorney Docket No. P12674-US1
EUS/JF/04-3105

REMARKS/ARGUMENTS

Amendments

The Applicants have amended claims 1-5 and 7-11. Claims 13-22 have been canceled. Claims 1-12 are pending in the application. Favorable reconsideration of the application is respectfully requested in view of the foregoing amendments and the following remarks.

Claim Rejections – 35 U.S.C. § 102(b)

Claims 1, 3-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Onoe *et al.* (US 5,361,396 hereinafter Onoe). The Applicant respectfully traverses the rejection of these claims.

The Onoe reference appears to disclose a system for registering mobile stations in a wireless system. The service area in Onoe is covered with a plurality of location areas each area supporting a plurality of cells that relate to a specific base station. When a mobile station moves beyond the border of the original registration cell, updating for the mobile station is carried out in the cell in which the mobile station stays (Abstract). When a location code in a mobile station does not coincide with any one of the location codes for the group to which the mobile station belongs in broadcast information, location codes are updated in a home memory station and the mobile station. Also in a fixed network a paging table is stored, which lists a plurality of zones for each group for each location code, and paging information for call to a mobile station is transmitted by the base stations which are listed in the related group of the location registration area in the table (Summary).

The Applicant respectfully directs attention to amended claim 1.

1. (Currently Amended) A wireless network providing global paging of mobile stations service by the network comprising:

a pool of mobile switching centers (MSC), for servicing mobile stations within a specified service area of said wireless network; and

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a radio configuration database (RCDB) for defining a plurality of global paging areas within said specified service, the global paging areas having a hierarchical structure comprising:

base station controller/radio network controllers (BSC/RNC) each of which manage

a plurality of location areas in which each location area in turn manages associated cells, and the pool of MSCs can communicate with each of the BSC/RNCs in each of the plurality of global paging areas.
(Emphasis added)

The Applicant respectfully asserts that the Onoe reference does not disclose (directly or inherently) at least the following features present in Claim 1; 1) global paging areas 2) MSC pool and 3) each MSC in the pool can communicate with each of the BSC/RNCs in the global paging areas.

A global paging area is essentially a subset of the network service area and is defined in the RCDB. The MSC pool is different from multiple MSCs in a network. The pool has the capability to communicate with all the Base station controllers in the network. In the present invention, the network is divided into global paging areas and the information (including BSC, location area and cells) regarding the areas is entered into the RCDB.

In the Applicant's invention, when a mobile station leaves a particular cell, the MSC that originally registered the mobile station pages the original registration chain (Location area and cell) first. Then, if the mobile station does not respond, the MSC pages the whole global paging area to which the location area belongs.

Onoe also discloses that the mobile stations in a particular location service area are labeled as being in the same group. Onoe also describes a stored table that contains groups of locations of the individual cells and zones. However, Onoe does not disclose a MSC pool in which the MSCs can page a mobile station in any of the global paging areas. This being the case, the Applicant respectfully requests that the rejection

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of claim 1 be withdrawn and since claims 3-4 depend from claim 1, the rejection of these claims also be withdrawn.

Claims 13-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Tiedemann, Jr. (US 5,289,527 hereinafter Tiedemann). Claims 13-16 have been canceled rendering the rejection of these claims moot.

Claim Rejections – 35 U.S.C. § 102(e)

Claims 7-10 are rejected under 35 U.S.C. 102(e) as being anticipated by United States Patent No. 6,343,216 issued to Kim *et al.* (hereinafter, Kim). The Applicant respectfully traverses the rejection of these claims.

The Kim reference appears to disclose a method of automatically reconnecting a dropped call wherein the Base station informs the MSC of the break and the MSC pages a group of base stations to attempt to reconnect.

The difference between the present invention is that Kim's MSC can page a broad area, but the page is sent to the cells covered by the MSC (Col 6, lines 56-58). In other words, the MSC pages only the cells specific to the MSC. There is no indication that the MSC can page into other defined paging areas as described in the Applicant's invention. The Applicant respectfully requests the withdrawal of the rejection of amended claim 7 and since claims 8-10 depend from claim 7 and contain the same novel limitations, the Applicant respectfully requests the withdrawal of the rejection of the claims 8-10.

Claim Rejections – 35 U.S.C. § 103 (a)

Claim 2 is rejected under 35 U.S.C § 103(a) as being unpatentable over Onoe in view of Kim. The Applicant respectfully traverses the rejection of claim 2.

The Kim reference was cited only for teaching a hierarchical structure. It is respectfully submitted that Kim does not address the above-identified deficiencies of Onoe with respect to Applicant's invention. The combination of the Onoe and Kim references fails to teach a true MSC pool in which all MSCs in the pool can page all the base stations in the various global paging areas.

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Claims 5 and 6 are rejected under 35 U.S.C § 103(a) as being unpatentable over Onoe in view of Ernam *et al.* (US 6,148, 201, hereinafter Ernam).

Ernam appears to disclose a base station controller in network routing circuitry that stores the ID of the BSC currently serving the mobile unit. However, Ernam does not supply the limitation of a MSC pool with all the MSCs capable of communicating with base stations in any of the base stations in each of the global paging areas

Claim 11 is rejected under 35 U.S.C § 103(a) as being unpatentable over Kim in view of Onoe in further view of Ernam and in further view of Hanson (US 6,035,204). The Applicant respectfully traverses the rejection of the claim. Some teaching in the prior art must suggest that the succeeding references be used to modify the original reference. Also, the combination must support the prima facie case and the Applicant's teachings may not be read into the prior art (*Panduit Corp v. Denison Mfg Co.*). Accordingly the Applicant respectfully requests that the rejection of this claim be withdrawn.

Claims 17-18 and claims 19-21 are rejected under 35 U.S.C § 103(a) as being unpatentable over Tiedemann, Jr. in view of Hanson and as being unpatentable over Tiedemann, Jr. in view of Hanson and in further view of Meyer (US 6,175,735). Cancellation of claims 17-21 have rendered the rejection of these claims moot.


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CONCLUSION

In view of the foregoing remarks, the Applicants believe all of the claims currently pending in the Application to be in a condition for allowance. The Applicant, therefore, respectfully requests that the Examiner withdraw all rejections and issue a Notice of Allowance for Claims 1-12.

The Applicants request a telephonic interview if the Examiner has any questions or requires any additional information that would further or expedite the prosecution of the Application.

Respectfully submitted,



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